



MADAGASCAR

ALAOTRA MANGORO

NDPBA REGION PROFILE

MADAGASCAR

REGION: ALAOTRA MANGORO



RISK AND VULNERABILITY COMPONENT SCORES



MULTI-HAZARD RISK (MHR) -

Low

Score: 0.465 • Rank: 14/23



RESILIENCE (R) -

Moderate

Score: 0.522 • Rank: 9/23



MULTI-HAZARD EXPOSURE (MHE) -

Moderate

Score: 0.440 • Rank: 11/23



VULNERABILITY (V) -

Low

Score: 0.377 • Rank: 17/23



COPING CAPACITY (CC) -

High

Score: 0.421 • Rank: 8/23

REGION HIGHLIGHTS



Population (2018 Census)

1,249,931



Extreme Poverty Rate

56.2%



Household Access to Drinking Water

41.7%



Literacy Rate

89.4%



Household Access to Electricity

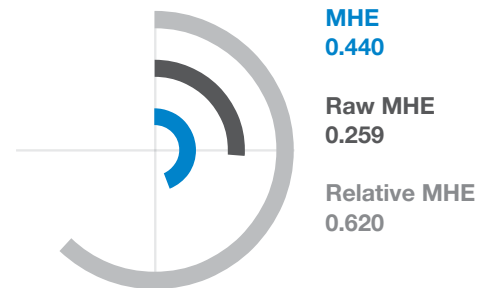
41.7%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 11 / 23 REGIONS

SCORE: 0.440



ESTIMATED EXPOSURE TO EACH HAZARD:



Sea Level Rise

0% (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Landslide

57% (370,800)

Buildings Exposed: **46%**

Critical Infrastructure Exposed: **47%**



Coastal Flooding

0% (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

0% (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Riverine Flooding

4% (23,600)

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **4%**



Wildfire

9% (59,200)

Buildings Exposed: **13%**

Critical Infrastructure Exposed: **11%**



Tsunami

0% (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Malaria

13% (87,300)

Buildings Exposed: **13%**

Critical Infrastructure Exposed: **6%**



Tropical Cyclone Wind

100% (649,000)

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Locust

Cropland Exposed: **100%**



Earthquake

92% (594,000)

Buildings Exposed: **75%**

Critical Infrastructure Exposed: **83%**

NOTE: Population exposure values are estimated using PDC's All-hazard Impact Model (AIM). Values may differ from Census population.



VULNERABILITY (V)

RANK: 17 / 23 REGIONS ASSESSED
SCORE: 0.377

Below is a summary of the regional Vulnerability Assessment within Alaotra Mangoro. Detailed region-level results, including all indicators used to assess vulnerability, are available in DisasterAWARE.



Information Access Vulnerability



SCORE: 0.485

RANK: 18/23 REGIONS ASSESSED



Clean Water Access Vulnerability

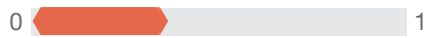


SCORE: 0.620

RANK: 15/23 REGIONS ASSESSED



Economic Constraints

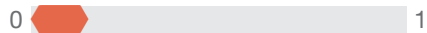


SCORE: 0.334

RANK: 13/23 REGIONS ASSESSED



Gender Disparity

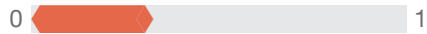


SCORE: 0.115

RANK: 20/23 REGIONS ASSESSED



Vulnerable Health Status

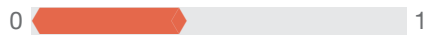


SCORE: 0.288

RANK: 17/23 REGIONS ASSESSED



Housing Vulnerability



SCORE: 0.423

RANK: 17/23 REGIONS ASSESSED



VULNERABILITY (V)

RANK: 17 / 23 REGIONS ASSESSED

SCORE: 0.377

KEY FACTORS INFLUENCING VULNERABILITY



Clean Water Access Vulnerability

Those without easy or adequate access to water distribution and containment systems face significant demands on daily routines that effectively limit their response and recovery capacity and the ability to maintain livelihoods. Increasing access to improved water and sanitation improves health outcomes and frees up resources to decrease further susceptibility to impacts.



Information Access Vulnerability

The ability to understand hazard and disaster-related information before, during, and after an event is central to acting on that information. If information channels and formats are limited, the groups and individuals exposed to information inclusive of mitigation options, preparedness measures, available resources, and impending hazard events, will likewise be limited. Information access enables the building and diversification of exposed populations' critical skill sets both before and after disasters strike.



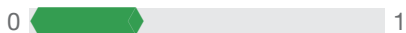
COPING CAPACITY (CC)

RANK: 8 / 23 REGIONS ASSESSED**SCORE: 0.421**

Below is a summary of the regional Coping Capacity Assessment within Alaotra Mangoro. Detailed region-level results, including all indicators used to assess coping capacity, are available in DisasterAWARE.



Economic Capacity

**SCORE: 0.291****RANK: 13/23 REGIONS ASSESSED**

Health Care Capacity

**SCORE: 0.544****RANK: 3/23 REGIONS ASSESSED**

Energy and Communications Capacity

**SCORE: 0.430****RANK: 6/23 REGIONS ASSESSED**

Transportation Capacity

**SCORE: 0.418****RANK: 16/23 REGIONS ASSESSED**

KEY FACTORS INFLUENCING COPING CAPACITY



Economic Capacity

A strong economic foundation provides an indication of a region's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Limited economic capacity correlates to disproportionate disaster impacts.



Transportation Capacity

Transportation Capacity represents the ability to ensure efficient movement and delivery of resources key to effective humanitarian assistance and disaster relief operations, including the provision of health services.



RESILIENCE (R)

RANK: 9 / 23 REGIONS ASSESSED**SCORE: 0.522**

Key drivers of Resilience within Alaotra Mangoro are summarized below. Detailed region-level results for the RVA are available in DisasterAWARE.

KEY FACTORS INFLUENCING RESILIENCE



Economic Capacity

A strong economic foundation provides an indication of a region's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Limited economic capacity correlates to disproportionate disaster impacts.



Clean Water Access Vulnerability

Those without easy or adequate access to water distribution and containment systems face significant demands on daily routines that effectively limit their response and recovery capacity and the ability to maintain livelihoods. Increasing access to improved water and sanitation improves health outcomes and frees up resources to decrease further susceptibility to impacts.



Transportation Capacity

Transportation Capacity represents the ability to ensure efficient movement and delivery of resources key to effective humanitarian assistance and disaster relief operations, including the provision of health services.



Energy and Communications Capacity

Homes, businesses, industry, and government all rely on access to energy resources and communications for continuity of daily activities. Expanding, strengthening, and securing the energy network and increasing the availability of internet services will contribute to economic development, facilitate effective and coordinated communication, and increase the speed of recovery processes in the aftermath of a disaster.



HAZARD-SPECIFIC RISK (HSR)



Sea Level Rise

RANK: 15 / 23 REGIONS ASSESSED
SCORE: 0.000



Coastal Flooding

RANK: 15 / 23 REGIONS ASSESSED
SCORE: 0.000



Riverine Flooding

RANK: 17 / 23 REGIONS ASSESSED
SCORE: 0.190



Tsunami

RANK: 15 / 23 REGIONS ASSESSED
SCORE: 0.000



Tropical Cyclone Wind

RANK: 18 / 23 REGIONS ASSESSED
SCORE: 0.592



Earthquake

RANK: 1 / 23 REGIONS ASSESSED
SCORE: 0.680



Landslide

RANK: 6 / 23 REGIONS ASSESSED
SCORE: 0.553



Extreme Heat

RANK: 20 / 23 REGIONS ASSESSED
SCORE: 0.000



Wildfire

RANK: 4 / 23 REGIONS ASSESSED
SCORE: 0.404



Malaria

RANK: 14 / 23 REGIONS ASSESSED
SCORE: 0.204



Locust

RANK: 4 / 23 REGIONS ASSESSED
SCORE: 0.690



MULTI-HAZARD RISK (MHR)

14 / 23

RANK AMONG REGIONS
SCORE: 0.465

The Multi-Hazard Risk score and ranking represent a combination of multi-hazard exposure, vulnerability, and coping capacity. Below is a summary of the Alaotra Mangoro region's RVA results. Detailed region-level results for the RVA are available in DisasterAWARE.

Multi-Hazard Risk component scores compared to overall average country scores:

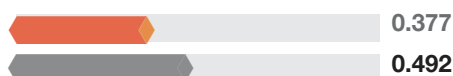
— COUNTRY SCORE
— ALAOTRA MANGORO SCORE



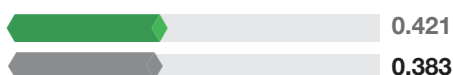
Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

**1305 N. Holopono Street | P: (808) 891-0525
Suite 2, Kihei, HI 96753 | F: (808) 891-0526**



@PDC_Global



/PDCGlobal



www.pdc.org



ndpba@pdc.org